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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/764,318	01/19/2001	Shozo Oguri	2001-0046A	6772	
513	7590 05/02/2003				
WENDEROTH, LIND & PONACK, L.L.P.			EXAMINER		
2033 K STRE SUITE 800		BERRY, WILLIE WENDELL JR			
WASHINGTON, DC 20006-1021			ART UNIT	PAPER NUMBER	
		•	3723	W.	

DATE MAILED: 05/02/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-326 (Re		ction Summary		Part o	of Paper No. 9			
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	4)		(PTO-413) Paper No Patent Application (PT				
Attachment	•	as priority under o	5 5.5.5. 33 120	GHAROT IZI.				
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
	See the attached detailed Office action for a list		•					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
	2. Certified copies of the priority documents have been received in Application No							
	1. Certified copies of the priority document			. N.				
a)[☐ All b)☐ Some * c)☐ None of:							
_	Acknowledgment is made of a claim for foreig	n priority under 35	U.S.C. § 119(a))-(d) or (f).				
	ınder 35 U.S.C. §§ 119 and 120							
12) The oath or declaration is objected to by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
10) 🔲 🖯	The drawing(s) filed on is/are: a) ☐ acce	pted or b)☐ object	ed to by the Exar	niner.				
9) 🗆 -	The specification is objected to by the Examine	er.						
Application Papers								
l '								
)⊠ Claim(s) <u>1-4,6,8-13,16 and 19</u> is/are rejected.							
	5) Claim(s) is/are allowed.							
	4a) Of the above claim(s) is/are withdra	•	ation.					
·	Claim(s) <u>1-6 and 8-22</u> is/are pending in the a	polication						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
3)	,—	e this application is in condition for allowance except for formal matters, prosecution as to the merits is						
2a)□		nis action is non-fi	nal.					
1)[Responsive to communication(s) filed on 15.	April 2002 .						
THE N - Exten after: - If the - If NO - Failur - Any re	MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing dispatent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, howe ly within the statutory min will apply and will expire to e, cause the application to	ver, may a reply be time mum of thirty (30) days SIX (6) MONTHS from t become ABANDONED	ely filed will be considered timely he mailing date of this co (35 U.S.C. § 133).				
Period fo	IT REPLY ORTENED STATUTORY PERIOD FOR REPL	V IS SET TO EXE	DIRE 3 MONTH(9	S) FROM	,			
	The MAILING DATE of this communication app		sheet with the co	orrespondence ad	dress			
	-	Willie Berry, Jr.		3723				
*	Office Action Summary	Examiner		Art Unit	 			
	•	09/764,318		OGURI ET AL.	⋰			
		Application No.		Applicant(s)	1) 1			

Art Unit: 3723

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "top ring" of claim 1 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

2. Claims 6 and 8-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6 recites sensing during dressing, yet claim 6 also recites measuring after dressing which renders the scope of the claim unclear.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 3723

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ravkin et al.

Ravkin discloses a polishing apparatus comprising: a polishing table (22 and 20), a top ring (32), a dresser (44 and 46), a sensor being mounted to dresser (column 12, lines 43-45), and a sensor (column 13, lines 1-3).

Ravkin does not disclose a sensor being mounted on the dresser observing a property on the polishing pad in the same embodiment.

It would have an obvious matter of design choice to combine the different embodiments of Ravkin to have the sensor mounted on the dresser observing a property on the polishing pad for the purpose of conditioning and observing the polishing pad.

5. Claims 2-4, 12, 13, 16, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ravkin et al. in view of Hayakawa et al.

Ravkin discloses as discussed above.

Ravkin does not disclose sensor observing irregularity on the polishing surface, a display device, and a sensor independently movable to the top ring or dresser.

Hayakawa discloses a sensor observing irregularity on the polishing surface (column 10, lines 8-14), a display device (27), and a sensor independently movable to the top ring or dresser

Application/Control Number: 09/764,318

Art Unit: 3723

(figure six shows sensor 26 independently movable to the top ring) in a polishing device for the

purpose of providing improved planarity in the plane of the surface of a substrate to be polished.

It would have been obvious to one having ordinary skill in the art at the time the invention

was made to have modified Ravkin to include the sensor observing irregularity on the polishing

surface, a display device, and a sensor independently movable to the top ring or dresser as taught

by Hayakawa for the purpose of providing improved planarity in the plane of the surface of a

substrate to be polished.

Response to Arguments

6. Applicant's arguments with respect to claims 1-6 have been considered but are moot in

view of the new ground(s) of rejection.

Allowable Subject Matter

7. Claims 5, 14, 15, 17, 18, and 20-22 are objected to as being dependent upon a rejected

base claim, but would be allowable if rewritten in independent form including all of the limitations

of the base claim and any intervening claims.

8. The following is a statement of reasons for the indication of allowable subject matter: The

references cited in this examination do not show separately or in combination the present detailed

embodiment of a polishing apparatus comprising a polishing table having a polishing surface; a top

ring for holding a workpiece and pressing the workpiece against the polishing surface; a dresser

Page 4

Application/Control Number: 09/764,318

Art Unit: 3723

for dressing the polishing surface; a sensor for observing a property of the polishing surface on the

Page 5

polishing table while the polishing surface is being dressed by the dresser; and a determination

device for comparing an initial property of the polishing surface which is observed by the sensor

with a property of the polishing surface which is observed by the sensor after the polishing surface

is dressed by the dresser, and determining when to replace a component of the polishing surface

based on the result of the comparison between the initial property and the property of the

polishing surface which is observed after the polishing surface is dressed.

Claims 6 and 8-11 would be allowable if rewritten or amended to overcome the 9.

rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

Conclusion

Any inquiry concerning this communication from the examiner should be directed to Willie Berry whose telephone number is (703) 308-7467.

Willie Berry, Jr. :wbj

March 10, 2003

Joseph J. Hail, III

Supervisory Patent Examiner

Technology Center 3700